


Number	Hits	Search Text	DB	Time stamp
0	0	("wc-9944972-\$.did.").PN.	EPO; JPO;	2002/06/28
1	1	wc-9944972-\$.did.	DERWENT	14:12
235	235	252/183.11-183.12.ccls.	EPO; JPO;	2002/06/28
1233	1233	n,n-diethylhydroxylamine	DERWENT	14:48
0	0	252/183.11-183.12.ccls. and	USPAT;	2002/06/28
2208	2208	n,n-diethylhydroxylamine	US-PGPUB	14:48
341	341	diethylhydroxylamine	USPAT;	2002/06/28
0	0	252/183.11-183.12.ccls. and	US-PGPUB	14:47
0	0	diethylhydroxylamine and	USPAT;	2002/06/28
0	0	phenylhydroxylamine	US-PGPUB	14:47
0	0	252/183.11-183.12.ccls. and	USPAT;	2002/06/28
0	0	phenylhydroxylamine	US-PGPUB	14:47
2	2	252/183.11-183.12.ccls. and	USPAT;	2002/06/28
0	0	diethylhydroxylamine	US-PGPUB	14:47
0	0	252/182.29,403,404.ccls,	USPAT;	2002/06/28
2346	2346	252/182.29,403,404.ccls.	US-PGPUB	14:48
4	4	phenylhydroxylamine and	USPAT;	2002/06/28
252/182.29,403,404.ccls.			US-PGPUB	14:55
30	30	"n-nitroso-n-phenylhydroxylamine"	USPAT;	2002/06/28
15368	15368	polymerization same inhibit\$4	US-PGPUB	14:55
245	245	diethylhydroxylamine and (polymerization	USPAT;	2002/06/28
same inhibit\$4)			US-PGPUB	15:00
5	5	(diethylhydroxylamine and (polymerization	USPAT;	2002/06/28
same inhibit\$4)) and phenylhydroxylamine			US-PGPUB	15:00
2821	2821	polyester and bromine and antimony	USPAT;	2002/06/28
23460	23460	flame ADJ10 retard\$4	US-PGPUB	17:15
1498	1498	(polyester and bromine and antimony) and	USPAT;	2002/06/28
(flame ADJ10 retard\$4)			US-PGPUB	17:16
19717	19717	ptfe or polytetrafluoroethylnene	USPAT;	2002/06/28
90	90	((polyester and bromine and antimony) and	US-PGPUB	17:16
(flame ADJ10 retard\$4)) and (ptfe or			USPAT;	2002/06/28
polytetrafluoroethylnene)			US-PGPUB	08:19
801	801	219/121.69.ccls.	USPAT;	2002/06/28
0	0	((polyester and bromine and antimony)	US-PGPUB	17:50
and (flame ADJ10 retard\$4)) and (ptfe or			USPAT;	2002/06/28
polytetrafluoroethylnene)) and			US-PGPUB	17:46
219/121.69.ccls.				
68326	68326	219/\$.ccls.	USPAT;	2002/06/28
0	0	((polyester and bromine and antimony)	US-PGPUB	17:46
and (flame ADJ10 retard\$4)) and (ptfe or			USPAT;	2002/06/28
polytetrafluoroethylnene)) and			US-PGPUB	17:47
219/\$.ccls.				
2	2	((polyester and bromine and antimony) and	USPAT;	2002/06/28
(flame ADJ10 retard\$4)) and 219/\$.ccls.			US-PGPUB	17:47
3524	3524	219/121.6-121.69.ccls.	USPAT;	2002/06/28
210130	210130	laser	US-PGPUB	17:50
3269	3269	219/121.6-121.69.ccls. and laser	USPAT;	2002/06/28
655739	655739	mark\$4	US-PGPUB	17:51

914	((219/121.6-121.69.ccls. and laser) and mark\$4	USPAT;	2002/06/28
		US-PGPUB	17:52
0	((polyester and bromine and antimony) and (flame ADJ10 retard\$4)) and	USPAT;	2002/06/28
	((219/121.6-121.69.ccls. and laser) and mark\$4)	US-PGPUB	17:53
0	((polyester and bromine and antimony) and (flame ADJ10 retard\$4)) and	USPAT;	2002/06/28
	(219/121.6-121.69.ccls. and laser)	US-PGPUB	17:53
52	((219/121.6-121.69.ccls. and laser) and mark\$4) and polyester	USPAT;	2002/06/28
		US-PGPUB	18:02
64918	terephthalate	USPAT;	2002/06/28
		US-PGPUB	18:02
26	((219/121.6-121.69.ccls. and laser) and mark\$4) and terephthalate	USPAT;	2002/06/28
		US-PGPUB	18:02
1	5783105.pn.	USPAT;	2002/06/29
		US-PGPUB	08:47
50	(44/597).CCLS.	USPAT;	2002/06/29
		US-PGPUB	08:54
49	(44/553).CCLS.	USPAT;	2002/06/29
		US-PGPUB	14:11

 **Tickets**

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Enter a chemical name, CAS Number, molecular formula, or molecular weight

N-nitroso-N-phenylhydroxylamine

New Search

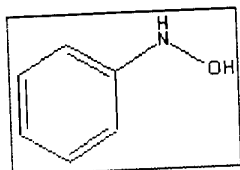
Or choose: [Substructure Query with Plug-In](#) or [Structure Query with Java](#)

N-phenylhydroxylamine [100-65-2]

Synonyms: phenylhydroxylamine; N-hydroxyaniline; beta-phenylhydroxylamine; hydroxylaminobenzene;

 C_6H_7NO

109.1274

[View with ChemDraw Plugin](#)

VIEW CHEM3D MODEL

Add Compound

Add or Change Property

Add Link

Feedback

ACX Number

X1016743-8

CAS RN

100-65-2

Melting Point (°C)

83 - 84

Density

Boiling Point (°C)

Vapor Density

Refractive Index

Vapor Pressure

Evaporation Rate

Water Solubility

Soluble in hot water

Flash Point (°C)

EPA Code

DOT Number

RTECS

NC4900000

Comments

Tan to brown crystals

More information about the chemical is available in these categories:

Biochemistry

[Biocatalysis/Biodegradation Database](#)[Information about this particular compound](#)

Health

DN 113:232247
 TI Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of
 polymerization inhibitors
 IN Fukuya, Kazuaki; Kuwana, Akihiro
 PA Daicel Chemical Industries, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C07D301-35
 ICS C07D303-16; C08F010-32; C08G059-20; C09D004-02; C09D133-06;
 C09D153-00
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 27

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02188576	A2	19900724	JP 1989-5816	19890112
	JP 2704284	B2	19980126		
OS	MARPAT 113:232247				
AB	<p>3,4-Epoxy-cyclohexylmethyl acrylate and methacrylate (I) are prepd. by epoxidn. of 3-cyclohexen-1-ylmethyl acrylate and methacrylate (II) with an oxidizing agent in the presence of polymn. inhibitors comprising .gtoreq.1 compd. selected from hydroquinone, hydroquinone mono-Me ether (III), p-benzoquinone, cresol, tert-butylcatechol, phenols substituted by tert-Bu and other groups, 2,5-dihydroxy-p-quinone, piperidine, ethanolamine, .alpha.-nitroso-.beta. naphthol, HNEh2, phenothiazine, N-nitrosophenylhydroxylamine, and Et3NOH and .gtoreq.1 compd. selected from H3PO4, K3PO4, Na3PO4, Na(NH4)HPO4, H4P2O7, K4P2O7, Na4P2O7, 2-ethylhexyl pyrophosphate, K or Na 2-ethylhexyl pyrophosphate, tripolyphosphoric acid, K or Na 2-ethylhexyl tripolyphosphate, and Na or K 2-ethylhexyl tetrapolyphosphate. Thus, a mixt. of 14.4 kg II, 52.8 kg AcOEt, 12 g III, and 12 g H4P2O7 was treated with 24.8 kg 30% AcOOH during 4 h at 50.degree. and aged 4 h to give 14.2 kg product contg. 94.7% I, 1 g of which dissolved completely in 10 g heptane.</p>				
ST	<p>epoxycyclohexylmethyl acrylate prepn polymn inhibitor; methacrylate epoxycyclohexylmethyl prepn polymn inhibitor; epoxidn cyclohexenylmethyl acrylate polymn inhibitor; hydroquinone polymn inhibitor methacrylate; pyrophosphoric polymn inhibitor acrylate; phenol polymn inhibitor acrylate; amine polymn inhibitor acrylate; phosphate polymn inhibitor acrylate</p>				
IT	<p>Polymerization inhibitors (in epoxidn. of cyclohexenylmethyl (meth)acrylate)</p>				
IT	<p>Epoxidation (of cyclohexenylmethyl (meth)acrylate, polymn. inhibitors in)</p>				
IT	<p>Phenols, uses and miscellaneous RL: USES (Uses) (polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)</p>				
IT	<p>21367-03-3, 3-Cyclohexen-1-ylmethyl acrylate 21367-03-3, 3-Cyclohexen-1-ylmethyl methacrylate RL: RCT (Reactant) (epoxidn. of, polymn. inhibitors in)</p>				

IT 38-32-4, 3-tert-Butyl-4-methoxyphenol 92-84-2, Phenothiazine
 106-51-4,
 p-Benzoquinone, uses and miscellaneous 110-39-4, Piperidine, uses and
 miscellaneous 121-00-6, 2-tert-Butyl-4-methoxyphenol 122-39-4,
 Diphenylamine, uses and miscellaneous 123-31-9, Hydroquinone, uses and
 miscellaneous 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and
 miscellaneous 131-91-9, .alpha.-Nitroso-.beta.-naphthol 141-43-5,
 Ethanclamine, uses and miscellaneous **148-97-0** 150-76-5,
 Hydroquinone monomethyl ether 615-94-1 1319-77-3, Cresol 1693-78-3,
 1-Ethylhexyl pyrophosphate 1879-09-0, 2,4-Dimethyl-6-tert-butylphenol
 1466-09-3, Pyrophosphoric acid **3710-84-7**, N,N-
 Diethylhydroxylamine 7320-34-5, Potassium pyrophosphate 7632-05-5,
 Sodium phosphate 7664-38-2, Phosphoric acid, uses and miscellaneous
 7722-88-5 10380-03-2, Tripolyphosphoric acid 12767-83-8, Sodium
 2-ethylhexyl tripolyphosphate 13011-54-6, Ammonium sodium hydrogen
 phosphate 16068-46-5, Potassium phosphate 27213-78-1,
 tert-Butylcatechol 130455-01-5 130455-02-6 130455-03-7
 130455-65-1
 130455-66-2
 RL: USES (Uses)
 (polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)
 IT 64630-63-3P, 3,4-Epoxy-cyclohexylmethyl acrylate 82428-30-6P,
 3,4-Epoxy-cyclohexylmethyl methacrylate
 RL: PREP (Preparation)
 (prepn. of, by epoxidn., polymn. inhibitors in)

L2 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN 1966:457:47 CAPLUS

DN 65:57:47

OREF 65:10697f,10698a

TI Polymerization inhibitors

FA Copolymer Rubber and Chemical Corp.

SO 22 pp.

DT Patent

LA Unavailable

IC C08F

CC 45 (Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	NL 65011747		19660311	NL	
PRAI	US		19640910		
AB	Org. N-nitrosyhydroxylamines or salts thereof are used in vinylpyridine, unsatd. hydrocarbons, and unsatd. esters to inhibit thermal polymerization				

and (or) the growth of popcorn polymer therein, e.g. during storage.

They

need not be removed prior to use of the monomers in catalytic polymerizations. NH₄ salts of **N-nitroso-N-phenylhydroxylamine** (I) or of N-nitroso-N-(1-naphthyl)hydroxylamine are very useful. I is twice as effective as a thermal polymerization inhibitor than the conventional tert-butylpyrocatechol (II). Copolymerization of butadiene with styrene by a cold rubber polymerization process is not retarded by I while II prevents any reaction.

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FILE COVERS 1907 - 29 Jun 2002 VOL 137 ISS 1
FILE LAST UPDATED: 27 Jun 2002 (20020627/ED)

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=> s n-nitros-n-phenylhydroxylamine

2436803 N
57 NITROS
34 NITROSES
91 NITROS
(NITROS OR NITROSES)

2436803 N
1596 PHENYLHYDROXYLAMINE
198 PHENYLHYDROXYLAMINES
1685 PHENYLHYDROXYLAMINE
(PHENYLHYDROXYLAMINE OR PHENYLHYDROXYLAMINES)

L1 0 N-NITROS-N-PHENYLHYDROXYLAMINE
(N(W)NITROS(W)N(W)PHENYLHYDROXYLAMINE)

=> s n-nitroso-n-phenylhydroxylamine

2436803 N
22271 NITROSO
15 NITROSOS
22276 NITROSO
(NITROSO OR NITROSOS)

2436803 N
1596 PHENYLHYDROXYLAMINE
198 PHENYLHYDROXYLAMINES
1685 PHENYLHYDROXYLAMINE
(PHENYLHYDROXYLAMINE OR PHENYLHYDROXYLAMINES)

L2 44 N-NITROSO-N-PHENYLHYDROXYLAMINE
(N(W)NITROSO(W)N(W)PHENYLHYDROXYLAMINE)

=> s 100-65-2/rn

830 100-65-2

30 100-65-2D
L3 803 100-65-2/RN
(100-65-2 (NOTL) 100-65-2D)

=> s 12 and 13

L4 0 L2 AND L3

=> d 12 1-44 ti

L2 ANSWER 1 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Determination of bismuth, selenium and tellurium in nickel-based alloys and pure copper by flow-injection hydride generation atomic absorption spectrometry-with ascorbic acid prereduction and cupferron chelation-extraction

L2 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Stabilized monomer composition

L2 ANSWER 3 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Separation and direct UV detection of lanthanides complexed with cupferron
by capillary electrophoresis

L2 ANSWER 4 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 O-Alkylation of Cupferron: Aiming at the Design and Synthesis of Controlled Nitric Oxide Releasing Agents

L2 ANSWER 5 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Polymerization inhibiting compositions, noncorrosive inhibitors and method
for using

L2 ANSWER 6 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Unsaturated polyester-based coating compositions containing N-substituted N-nitrosohydroxylamine salts

L2 ANSWER 7 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Synthesis and spectral data of some new **N-nitroso-N-phenylhydroxylamine** (cupferron) derivatives

L2 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Determination of trace europium by adsorptive cathodic stripping voltammetry after complexation with cupferron

L2 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Nitroso compounds for use as antioxidants for preparation of (meth)acrylate esters bearing alicyclic epoxy groups

L2 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Preparation of N,N-dimethylacrylamide or N,N-dimethylmethacrylamide

L2 ANSWER 11 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Purifying aqueous solutions of indium salts

L2 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2002 ACS

T1 Purification of unsaturated carboxylic acid isocyanatoalkyl esters by distillation

- L2 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Discharge characteristics of metal complexes of N-nitroso-N-phenylhydroxylamine as cathode materials for lithium primary cells
- L2 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Extraction-polarographic determination of trace metals in rubbers
- L2 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Polymerization inhibitors for acrylic monomers
- L2 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Selective removal of trace copper ion in nickel electroplating bath with chelating reagents
- L2 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 In vivo and in vitro inhibition of mung bean superoxide dismutase by cupferron
- L2 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Azo- and azoxy compounds. IV. Alkylation of **N-nitroso-N-phenylhydroxylamine**. Synthesis and mass spectra of 1-alkoxydiazene 2-oxides
- L2 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Photocuring compositions
- L2 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Reaction of **N-nitroso-N-phenylhydroxylamine** with epoxides
- L2 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Photocurable coating materials
- L2 ANSWER 22 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Photocurable coating materials
- L2 ANSWER 23 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Planar dicarbonylrhodium(I) and -iridium(I) complexes with polarizable aromatic ligands
- L2 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Ultraviolet and infrared spectra of tetrakis(cupferronato) and (neocupferronato)uranium(IV)
- L2 ANSWER 25 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Light-sensitive photographic material
- L2 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Polymerization inhibitors for the catalytic hydration of acrylonitrile
- L2 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Ultraviolet and infrared spectra of cupferron and neocupferron
- L2 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2002 ACS
T1 Thermodynamics of metal-ligand bond formation. III. Adducts of heterocyclic bases with bis(N-nitroso-N-phenylhydroxylaminate)copper(II)
- L2 ANSWER 29 OF 44 CAPLUS COPYRIGHT 2002 ACS

TI Preconcentration of trace amounts of molybdenum in soil extract by
 coprecipitation with cupferron in the presence of iron

 L2 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Adsorption of iodide by soils

 L2 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Some complexes of americium and curium with oxine, cupferron, and
 N-benzoylphenylhydroxylamine

 L2 ANSWER 32 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Determination of vanadium by atomic absorption spectrophotometry

 L2 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Polymerization inhibitors

 L2 ANSWER 34 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI New heterocycles containing boron and nitrogen

 L2 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Coordination compounds of pentavalent vanadium

 L2 ANSWER 36 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI New synthesis of N-nitroso-N-arylhydroxylamines

 L2 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI The distribution coefficient of cupferron

 L2 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Fungicidal solubilized metal salts of N-nitroso-N-arylhydroxylamines

 L2 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Extraction and flame-spectrophotometric determination of vanadium

 L2 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Effect of chelating agents on the survival of irradiated mice

 L2 ANSWER 41 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Stabilization of polymerizable heterocyclic nitrogen compounds

 L2 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Choline dehydrogenase of the liver

 L2 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI Salts of **N-nitroso-N-phenylhydroxylamines** as fungicides and bactericides

 L2 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2002 ACS
 TI The extraction of metal complexes. IV. The dissociation constants and
 partition coefficients of 8-quinolinol (oxine) and N-nitro-N-
 phenylhydroxylamine (cupferron)

=> d 12 2 5 6 10 15 26 33 all

L2 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:152347 CAPLUS
 DN 134:193861

TI Stabilized monomer composition
 IN Scharf, Jakob; Rau, Hartmut; Gotzen, Friedrich
 PA Rohm GmbH, Germany
 SO Eur. Pat. Appl., 8 pp.
 CODEN: EPXXIW
 DT Patent
 LA German
 IC ICM C09K015-20
 ICS C07C007-20; C07E063-04
 CC 35-2 (Chemistry of Synthetic High Polymers)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1078973	A2	20010328	EP 2000-117696	20000817
	EP 1078973	A3	20010307		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19940623	A1	20010301	DE 1999-19940623	19990827
	JP 2001089417	A2	20010403	JP 2000-254164	20000824
PRAI	DE 1999-19940623	A	19990827		
AB	A storage-stable synergistic inhibitor compn., useful esp. in the manuf. of hydroxyalkyl (meth)acrylate monomers, comprises (1-10):1 (wt. parts) mixt. of Et2NOH and PhN(NO)OH, resp., as synergistic inhibitor combination.				
ST	polymn inhibitor diethylhydroxylamine phenylnitrosohydroxylamine; nitrosophenylhydroxylamine diethylhydroxylamine polymn inhibitor hydroxyethyl acrylate; hydroxyethyl acrylate manuf stabilization diethylhydroxylamine phenylnitrosohydroxylamine synergistic inhibitor				
IT	Monomers PL: MSC (Miscellaneous) (ethylenically unsatd.; stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				
IT	Polymerization inhibitors (stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				
IT	148-97-0, N-Nitroso-N-phenylhydroxylamine PL: NUU (Other use, unclassified); USES (Uses) (stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				
IT	818-61-1, 2-Hydroxyethyl acrylate 5205-93-6 13081-44-2, N,N-Dimethylaminoethyl methacrylamide PL: MSC (Miscellaneous) (stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				
IT	135-10-6, Cupferron PL: NUU (Other use, unclassified); USES (Uses) (stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				
IT	3710-84-7, N,N-Diethylhydroxylamine PL: NUU (Other use, unclassified); USES (Uses) (stabilized monomer compn. contg. synergistic combination of N-nitroso-N-phenylhydroxylamine and N-nitroso-N-phenylhydroxylamine)				

L2 ANSWER 5 CF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1999:576891 CAPLUS
DN 131:200775
TI Polymerization inhibiting compositions, noncorrosive inhibitors and method

for using
IN Ukita, Keizo; Onodera, Yuko
PA Nippon Zeon Co., Ltd., Japan
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM C07C011-18
ICS C07C011-167; C07C239-08; C07C007-20; C07F009-09; C07F009-50;
C08F002-40

CC 37-2 (Plastics Manufacture and Processing)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9944972	A1	19990910	WO 1999-JP1017	19990303
	W: CN, ID, JP, KR, US				
	PW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1061059	A1	20001220	EP 1999-907850	19990303
	R: DE, ES, FR, GB, IT, NL, PT				
PRAI	JP 1998-67872	A	19980303		
	JP 1998-292987	A	19980930		
	WO 1999-JP1017	W	19990303		

OS MARPAT 131:200775

AB The inhibitor compns. comprise (A) .gtoreq.1 compd. having a NO radical group or its precursor and (B) a P-contg. compd. as corrosion inhibitor in

an A/B wt. ratio of 1:10 to 100:1. Monomer compns. contg. conjugated dienes, arom. vinyl compds., ethylenically unsatd. nitrile compds. or/and .alpha.-olefins are effectively inhibited from polymn. by including the inhibitors during handling and storage. Thus, heating a compn. of 20 g conjugated diene-contg. hydrocarbon mixt. in the presence of 180 ppm (added at 60 ppm over 8 h for 3 times), Fe flakes,

N,N-diethylhydroxyamine

(480 ppm over 8 h for 3 times) and Latemul P 909 (phosphate based surfactant; 480 ppm over 8 h for 3 times) for 24 h at 125.degree. showed polymer formation 0.07%, high boiling fraction 0.25% and no corrosion of Fe flakes.

ST anticorrosive phosphate surfactant polymn inhibitor nitroxide; diene monomer polymn inhibitor nitroxide radical

IT Alkadienes

PL: RCT (Reactant); RACT (Reactant or reagent)
(conjugated, monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Polymerization inhibitors

(hindered nitroxides; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Alkadienes

FL: MSC (Miscellaneous)
(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Vinyl compounds, reactions

EL: FCT (Reactant); RACT (Reactant or reagent)

(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Corrosion inhibitors
(polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Nitroxides
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitors/precursors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 2516-92-9, Bis(1-oxyl-2,2,6,6-tetramethylpiperidine-4-yl) sebacate
RL: MOA (Modifier or additive use); USES (Uses)
(Ciba 5415, polymn. inhibitor precursors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 121-45-9 554-70-1, Triethylphosphine 603-35-0, Triphenylphosphine, uses 1608-26-0 3049-24-9, Triphenyl phosphonate 7558-79-4, Disodium phosphate 7558-80-7, Monosodium phosphate 7664-38-2, Phosphoric acid, uses 7664-38-2D, Phosphoric acid, esters or salts, uses 9021-89-0 9071-85-6 26523-78-4, Tris(nonylphenyl) phosphite 51811-79-1, Latemul P 909 82905-49-5, Pelex RP
RL: MOA (Modifier or additive use); USES (Uses)
(corrosion inhibitors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 78-79-5, reactions 106-99-0, 1,3-Butadiene, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 100-42-5, reactions
RL: PCT (Reactant); RACT (Reactant or reagent)
(polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 135-20-6, **N-Nitroso-N-phenylhydroxylamine** ammonium salt 3710-84-7 7632-00-0, Sodium nitrite
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitor precursors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 2236-96-2 2896-70-0, 4-Oxo-2,2,6,6-tetramethylpiperidine-1-oxyl
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitor; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

- RE
- (1) Anon; US 5856562 A CAPLUS
 - (2) Anon; EP 810196 A1 CAPLUS
 - (3) Japan Synthetic Rubber Co, Ltd; JP 05-202256 A 1993 CAPLUS
 - (4) Mitsubishi Chemical Corp; JP 09-316026 A 1997 CAPLUS

L2 ANSWER 6 OF 44 CAPLUS COPYRIGHT 2002 ACS

AN: 1999:78624 CAPLUS

DN: 130:197965

TI Unsaturated polyester-based coating compositions containing N-substituted N-nitrosohydroxylamine salts

IN Yonezawa, Miwako; Yamazaki, Takahide

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
IC ICM C09B167-06
ICS C09D005-04
CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 11029740	A2	19990202	JP 1997-186801	19970711
PI	JP 3259902	B2	20020225		

AB Coating compns. with good storage stability contain unsatd. polyesters, thixotropic agents and/or pigments, accelerators, and the title salts. Thus, a compn. contg. neopentyl glycol-propylene glycol-isophthalic acid-maleic anhydride-styrene copolymer 100, Aerosil 200 2, Co

naphthenate

0.5, and **N-nitroso-N-**

phenylhydroxylamine Al salt 0.015 part showed a small change in gelling time with Kayamec BUY after standing.

ST unsatd polyester coating nitroso hydroxylamine additive; thixotropic agent

unsatd polyester nitrosohydroxylamine coating; glycol isophthalic maleic styrene copolymer coating; phthalic maleic styrene glycol copolymer coating

IT Naphthenic acids, uses

RL: CAT (Catalyst use); USES (Uses)

(cobalt salts, accelerator; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Coating materials

(storage-stable; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Crosslinking catalysts

Pigments, nonbiological

Thixotropic agents

(unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Polyesters, uses

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(unsatd.; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 13463-67-7, CR 90, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(CR 90, pigment; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 60650-95-5, Titanium yellow

RL: TEM (Technical or engineered material use); USES (Uses)
(TY 55, pigment; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 7631-86-9, Aerosil 200, uses

RL: MOA (Modifier or additive use); USES (Uses)
(colloidal, thixotropic agent; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 67939-21-3P, Isophthalic acid-maleic anhydride-neopentyl glycol-propylene glycol-styrene copolymer 220460-53-7P, Hexahydrophthalic anhydride-maleic anhydride-neopentyl glycol-propylene glycol-styrene copolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 135-20-6, **N-Nitroso-N-phenylhydroxylamine** ammonium salt 120457-86-5, **N-Nitroso-N-phenylhydroxylamine** aluminum salt
 PL: MOA (Modifier or additive use); USES (Uses)
 (unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

L2 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:591354 CAPLUS

DI 117:191354
 TI Preparation of N,N-dimethylacrylamide or N,N-dimethylmethacrylamide
 IN Maruyama, Takashi; Hiraoka, Ryoichi; Okidaka, Isao; Kido, Osamu
 PA Kohjin Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07C233-09

ICS C07C231-12

CC 23-18 (Aliphatic Compounds)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04154749	A2	19920527	JP 1990-276445	19901017
	JP 2986891	B2	19991206		
AB	N,N-Dimethyl(meth)acrylamide is prepd. by thermal decompn. of Me ₂ NCH ₂ CH ₂ CONMe ₂ (I; R = H, Me) in liq.-phase using vapor-phase polymn. inhibitors. Thermal decompn. of a mixt. of 3120 g I (R = H) and N-nitroso-N-phenylhydroxylamine ammonium salt at 150-155.degree. for 30 h gave 2208 g crude monomers, which was vacuum distd. with phenothiazine under 10 mmHg to give 1525 g N,N-dimethylacrylamide of 99.2% purity.				
ST	methylacrylamide prepn; methylmethacrylamide prepn; acrylamide dimethyl prepn; methacrylamide dimethyl prepn; thermal decompn dimethylaminoamide polymn inhibitor				
IT	Polymerization inhibitors				
IT	17268-47-2	38872-39-8	(vapor-phase, in liq.-phase thermal decompn. of dimethylaminoamides)		
IT	10102-43-9	Nitrogen monoxide, uses			
	PL: USES (Uses)	(polymn. inhibitor, in liq.-phase thermal decompn. of dimethylaminoamides)			
IT	135-20-6	3316-09-4	143814-78-2	Diphenylpicrylhydrazide	
	PL: RCT (Reactant)	(polymn. inhibitor, in liq.-phase thermal decompn. of dimethylaminoamides)			
IT	2680-03-7P	N,N-Dimethylacrylamide 6976-91-6P, N,N-Dimethylmethacrylamide			
	RL: SPN (Synthetic preparation); PREP (Preparation)	(prepn. of)			

L2 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1988:38591 CAPLUS

DI 108:38591

TI Polymerization inhibitors for acrylic monomers
 IN Mukoyama, Hideaki; Hiraoka, Ryoichi
 PA Kasei Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C08F020-56
 ICS C07C081-00; C08F002-00
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 23

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62187710	A2	19870817	JP 1986-28911	19860214
AB	Polymn. inhibitors for H ₂ C:C(R)CONHR ₁ (I; R = H, methyl; R ₁ = C ₁ -3 alkyl) comprise nitroso compds., inorg. stabilized radicals, and/or org. stabilized radicals. Thus, when 10 parts I (R = H, R ₁ = Me) was heated at 100.degree. under reduced pressure for 23 h in the presence of 0.05 part 4-ONC6H4NMe ₂ , no polymn. was obsd. even after 20 h continuous heating at 120.degree..				
ST	polymn inhibitor alkyl acrylamide; nitroso compd polymn inhibitor; methacrylamide alkyl polymn inhibitor; nitrosodimethylaniline polymn inhibitor methylacrylamide				
IT	Nitroso compounds PL: USES (Uses) (polymn. inhibitors, for alkyl(meth)acrylamides)				
IT	Polymerization inhibitors (popcorn, for alkyl(meth)acrylamides, nitroso compds. or (in)org. radicals as)				
IT	1187-59-3, N-Methylacrylamide 3887-02-3, N-Methylmethacrylamide 25999-13-7, N-Propylacrylamide PL: USES (Uses) (polymn. inhibitor for, nitroso compds. or (in)org. radicals as)				
IT	131-91-9, 1-Nitroso-2-hydroxynaphthalene 132-53-6, 2-Nitroso-1-hydroxynaphthalene 135-20-6, N-Nitroso-N-phenylhydroxylamine ammonium salt 138-89-6, N,N-Dimethyl-4-nitrosoaniline 586-96-9, Nitrosobenzene 2370-18-5, Galvinoxyl 2564-83-2 2896-70-0 10102-43-9, uses and miscellaneous 10102-44-0, uses and miscellaneous 24973-59-9, 2,4,6-Tri-tert-butylnitrosobenzene 30772-85-1, Nitrosodiphenylphenylamine 112340-28-0 FL: USES (Uses) (polymn. inhibitors, for alkyl(meth)acrylamides)				

L2 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2002 ACS
 AN 1973:16804 CAPLUS
 NN 78:16804
 TI Polymerization inhibitors for the catalytic hydration of acrylonitrile
 IN Modeen, James H.; Newton, Gary E.
 PA Dow Chemical Co.
 SO U.S., 3 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC C07C
 NCL 260561000N
 CC 35-4 (Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3689558	A	19720905	US 1970-17943	19700309
	BE 771685	A1	19720223	BE 1971-107349	19710823
PRAI	US 1970-17943		19700309		
AB	<p>Polymer formation during the catalytic hydration of acrylonitrile (I) to acrylamide (II) was reduced or prevented by the addn. of N-nitroso-N-phenylhydroxylamine ammonium salt (III) [135-20-6], a nitrosophenol, or a trialkylamine contg. Cl-6 alkyl groups where < 2 alkyl groups were Me. The inhibitors could be deactivated by adjusting the pH so that the II could be polymerized. Thus, a neutral 7% I soln. contg. 25 ppm III was heated at 90.deg. in the presence of reduced catalyst contg. 40% Cu and 25.5% Cr to yield II without polymer formation. The II was made basic and was polymerized in the presence of a persulfate initiator to form polyacrylamide [9003-05-8],</p> <p>which was as good as the polymer obtained from II produced without an inhibitor. I hydrated over the reduced catalyst without the inhibitor or in the presence of hydroquinone Me ether formed polymer in the catalyst and in the reactor. Triethylamine [121-44-8] was also used instead of III, and produced similar polymer-free II.</p>				
ST	acrylonitrile polymn inhibitor ethylamine; nitrosophenylhydroxylamine polymn inhibitor; amine polymn inhibitor acrylonitrile; acrylamide sepn acrylonitrile hydration				
IT	Polymerization inhibitors (nitrosophenylhydroxylamine ammonium salt, for acrylamide)				
IT	Hydration, chemical (of acrylonitrile, to acrylamide)				
IT	79-06-1P, preparation RL: PREP (Preparation) (from acrylonitrile, by hydration)				
IT	11104-65-7 39320-46-2 RL: USES (Uses) (hydration of acrylonitrile to acrylamide in presence of)				
IT	107-13-1, reactions FL: RCT (Reactant) (hydration of, to acrylamide)				
IT	121-44-8, uses and miscellaneous 135-20-6 PL: USES (Uses) (inhibitors, for polymn. of acrylamide)				
L2	ANSWEP 33 OF 44 CAPLUS COPYRIGHT 2002 ACS				
AN	1966:457247 CAPLUS				
DN	65:57247				
OREF	65:10697f,10698a				
TI	Polymerization inhibitors				
PA	Copolymer Rubber and Chemical Corp.				
SO	22 pp.				
DT	Patent				
LA	Unavailable				
IC	C08F				
CC	45 (Synthetic High Polymers)				

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 65011747		19660311	NL	
PRAI	US		19640910		

AB Org. N-nitrosodihydroxylamines or salts thereof are used in vinylpyridine, unsatd. hydrocarbons, and unsatd. esters to inhibit thermal polymerization and (or) the growth of popcorn polymer therein, e.g. during storage. They need not be removed prior to use of the monomers in catalytic polymerizations. NH4 salts of **N-nitroso-N-phenylhydroxylamine** (I) or of N-nitroso-N-(1-naphthyl)hydroxylamine are very useful. I is twice as effective as a thermal polymerization inhibitor than the conventional tert-butylpyrocatechol (II). Copolymerization of butadiene with styrene by a cold rubber polymerization process is not retarded by I while II prevents any reaction.

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=> s 148-97-0/rn
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FILE LAST UPDATED: 27 Jun 2002 (20020627/ED)

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=> s 148-97-0/rn
      79 148-97-0
      30 148-97-0D
L6      54 148-97-0/RN
      (148-97-0 (NOTL) 148-97-0D )
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 HITSTR ----- HIT FN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT FN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT FN, its text modification, its CA index name, and
 its structure diagram
 FHITSEQ ----- First HIT FN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
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 ENTER DISPLAY FORMAT (BIB):bib

L6 ANSWER 1 OF 54 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:353510 CAPLUS
 DN 136:370166
 TI Irradiation process for making olefin graft copolymers with low
 molecular-weight side chains
 IN Dang, Vu A.; Phan, Tam T. M.; Smith, Jeanine A.; Song, Cheng Q.
 PA Basell Technology Company B.V., Neth.
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXKDE
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036650	A1	20020510	WO 2001-IB2014	20011026
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BF, BY, BZ, CA, CH, CN, CO, CP, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HP, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2000-704375	A	20001102		
RE.CNT	8	THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

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FILE 'CAPLUS' ENTERED AT 13:50:27 ON 29 JUN 2002

L1 0 S N-NITROS-N-PHENYLHYDROXYLAMINE
L2 44 S N-NITROS-N-PHENYLHYDROXYLAMINE
L3 803 S 100-65-2/FN
L4 0 S L2 AND L3

FILE 'STNGUIDE' ENTERED AT 13:54:27 ON 29 JUN 2002

L5 0 S 148-97-0/FN

FILE 'CAPLUS' ENTERED AT 14:01:43 ON 29 JUN 2002

L6 54 S 148-97-0/FN

=> s 3710-84-7/rn

739 3710-84-7

15 3710-84-7D

L7 726 3710-84-7/FN

(3710-84-7 (NOTL) 3710-84-7D)

=> s 16 and 17

L8 6 L6 AND L7

=> d 18 ti

L8 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Irradiation process for making olefin graft copolymers with low molecular-weight side chains

=> d 18 2-6 ti

L8 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Preparation of polyolefin graft copolymers with low molecular weight side chains by using polymeric peroxide as initiator

L8 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Stabilized monomer composition

L8 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Preparation of alicyclic epoxidated dihydrodicyclopentadienyl (meth)acrylates as monomers

L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Manufacture of epoxycyclohexylmethyl (meth)acrylates

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

T1 Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of polymerization inhibitors

=> d 18 6 all

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

AN 1990:632247 CAPLUS

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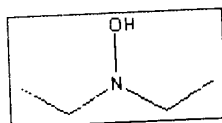
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diethyl hydroxylamine [3710-84-7]

Synonyms: Ethanamine, N-ethyl-N-hydroxy-; N,N-Diethylhydroxylamine;

$C_4H_{11}NO$

89.137



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ACX Number

X1009492-5

CAS RN

3710-84-7

Melting Point (°C)

-26 - -25

Density

0.867

Boiling Point (°C)

125 - 130

Vapor Density

Refractive Index

Vapor Pressure

Evaporation Rate

Water Solubility

Flash Point (°C)

45

EPA Code

DOT Number

RTECS

NC3500000

Comments

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Physical Properties

Environmental Science Center database with Experimental Log P coefficients etc.

[Information about this particular compound](#)

L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

AN 1990:632247 CAPLUS

DN 113:232247

TI Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of polymerization inhibitors

IN Fukuya, Kazuaki; Kuwana, Akihiro

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKKXAF

IT Patent

LA Japanese

IC ICM C07D301-36

ICS C07D303-16; C08F020-32; C08G059-20; C09D004-02; C09D133-06;

C09D163-00

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 27

FAN.CIT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI	JP 02188676	A2	19900724	JP 1989-5816	19890112
	JP 2704284	B2	19980126		

OS MARPAT 113:232247

AB 3,4-Epoxy-cyclohexylmethyl acrylate and methacrylate (I) are prep'd. by epoxidn. of 3-cyclohexen-1-ylmethyl acrylate and methacrylate (II) with an

oxidizing agent in the presence of polymn. inhibitors comprising .gtoreq.1

compd. selected from hydroquinone, hydroquinone mono-Me ether (III), p-benzoquinone, cresol, tert-butylcatechol, phenols substituted by tert-Bu

and other groups, 2,5-dihydroxy-p-quinone, piperidine, ethanolamine, .alpha.-nitroso-.beta.-naphthol, HNPh2, phenothiazine, N-nitrosophenylhydroxylamine, and Et2NOH and .gtoreq.1 compd. selected from H3PO4, K3PO4, Na3PO4, Na(NH4)HPO4, H4P2O7, K4P2O7, Na4P2O7, 2-ethylhexyl pyrophosphate, K or Na 2-ethylhexyl pyrophosphate, tripolyphosphoric acid, K or Na 2-ethylhexyl tripolyphosphate, and Na or

K 2-ethylhexyl tetrapolyphosphate. Thus, a mixt. of 14.4 kg II, 52.8 kg AcOEt, 1.1 g III, and 12 g H4P2O7 was treated with 24.8 kg 30% AcOOH

during 4 h at 50-degree. and aged 4 h to give 14.2 kg product contg. 94.7% I, 1

g of which dissolved completely in 10 g heptane.

ST epoxy-cyclohexylmethyl acrylate prep'n polymn inhibitor; methacrylate epoxy-cyclohexylmethyl prep'n polymn inhibitor; epoxidn cyclohexenylmethyl acrylate polymn inhibitor; hydroquinone polymn inhibitor methacrylate; pyrophosphoric polymn inhibitor acrylate; phenol polymn inhibitor acrylate; amine polymn inhibitor acrylate; phosphate polymn inhibitor acrylate

IT Polymerization inhibitors

(in epoxidn. of cyclohexenylmethyl (meth)acrylate)

IT Epoxidation

(of cyclohexenylmethyl (meth)acrylate, polymn. inhibitors in)

IT Phenols, uses and miscellaneous

RL: USES (Uses)

(polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)

IT 21367-02-2, 3-Cyclohexen-1-ylmethyl acrylate 21367-03-3,

3-Cyclohexen-1-ylmethyl methacrylate
 FL: RCT (Reactant)
 (epoxidn. of, polymn. inhibitors in)

IT 88-32-4, 3-tert-Butyl-4-methoxyphenol 92-84-2, Phenothiazine
 106-51-4,
 p-Benzoquinone, uses and miscellaneous 110-89-4, Piperidine, uses and
 miscellaneous 121-00-6, 2-tert-Butyl-4-methoxyphenol 122-39-4,
 Diphenylamine, uses and miscellaneous 123-31-9, Hydroquinone, uses and
 miscellaneous 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and
 miscellaneous 131-91-9, .alpha.-Nitroso-.beta.-naphthol 141-43-5,
 Ethanolamine, uses and miscellaneous **148-97-0** 150-76-5,
 Hydroquinone monomethyl ether 615-94-1 1319-77-3, Cresol 1693-78-3,
 2-Ethylhexyl pyrophosphate 1879-09-0, 2,4-Dimethyl-6-tert-butylphenol
 2466-09-3, Pyrophosphoric acid **3710-84-7**, N,N-
 Diethylhydroxylamine 7320-34-5, Potassium pyrophosphate 7632-05-5,
 Sodium phosphate 7664-38-2, Phosphoric acid, uses and miscellaneous
 7722-88-5 10380-08-2, Tripolyphosphoric acid 12767-83-8, Sodium
 2-ethylhexyl tripolyphosphate 13011-54-6, Ammonium sodium hydrogen
 phosphate 16068-46-5, Potassium phosphate 27213-78-1,
 tert-Butylcatechol 130455-01-5 130455-02-6 130455-03-7
 130455-65-1
 130455-66-2
 RL: USES (Uses)
 (polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)

IT 64630-63-3P, 3,4-Epoxy cyclohexylmethyl acrylate 82428-30-6P,
 3,4-Epoxy cyclohexylmethyl methacrylate
 RL: PREP (Preparation)
 (prepn. of, by epoxidn., polymn. inhibitors in)